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TAUTOMERS:

H2C_CH2 H2C_CH2

$$S$$
 AS
 AS
 AS
 AS
 $COOH$

$$H_2C_CH_2$$
 $H_2C_CH_2$
 S
 AS
 AS
 AS
 $COO^ COO^-$

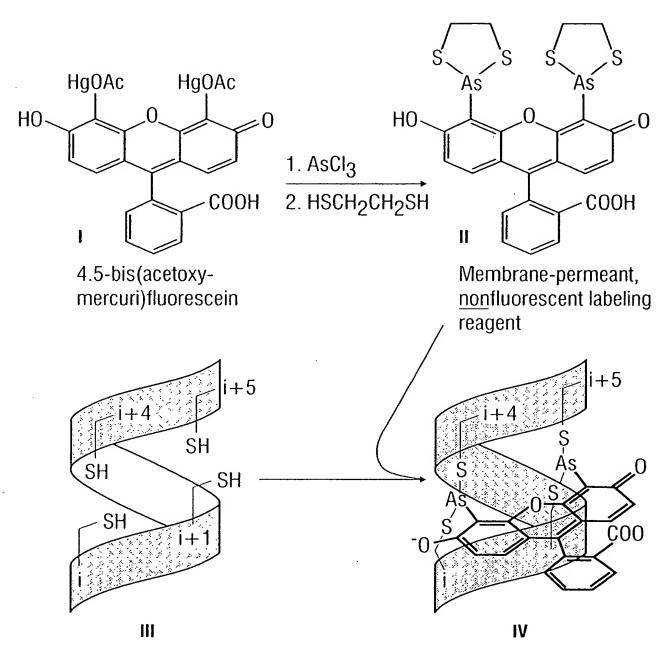
ANHYDRIDES:

FIG. 1

FIG. 2A

$$\begin{array}{c} \text{A} \\ \text{$$

FIG. 2B



∞-helical -CCXXCC- domain within a recombinant protein

Flourescent, red-shifted complex

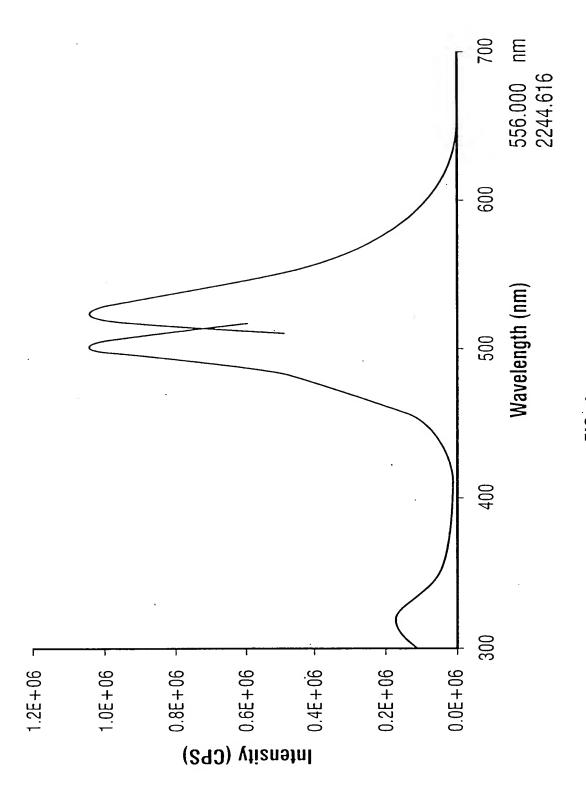


FIG. 4

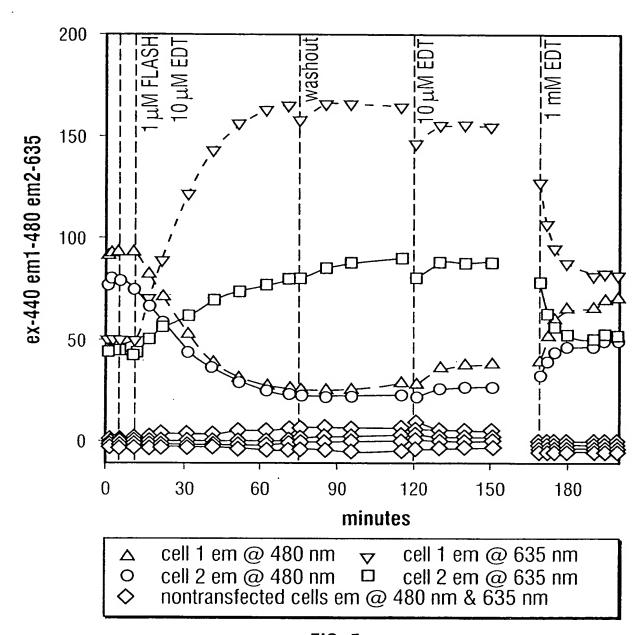


FIG. 5

$$\begin{array}{c} \text{HO} \\ \text{As} \\ \text{S} \\ \text{O} \\ \text{COOH} \\ \text{Enzyme conjugate via ϵ-amino group of a lysine} \\ \\ \text{Enzyme} \\ \text{Enzyme} \\ \end{array}$$

FIG. 7

phosphorescence (in absence of θ_2) singlet oxygen generation with θ_2

Ln = Tb, Eu: luminescence

spin label (electron paramagnetic resonance)

Photosensitizer of hydroxyl radical formation

 $R^3 = R^4 = {}^3H$ or ${}^{125}I$: radioactivity $R^3 = R^4 = I$ or TIOH: heavy atoms for X-ray scattering

Paramagnetic ion increasing proton relaxivity

¹⁹F NMR probe

FIG. 10